

(PCT Article 36 and Rule 70)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/016971

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1, 3-9 as originally filed/furnished
- pages* 2, 2/1 received by this Authority on 28.09.2005
- pages* _____ received by this Authority on _____
- ☒ the claims:
- nos. 2-4, 6-14 as originally filed/furnished
- nos.* _____ as amended (together with any statement) under Article 19
- nos.* 1 received by this Authority on 28.09.2005
- nos.* _____ received by this Authority on _____
- ☒ the drawings:
- sheets Fig. 1-6 as originally filed/furnished
- sheets* _____ received by this Authority on _____
- sheets* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☒ The amendments have resulted in the cancellation of:
- ☐ the description, pages _____
- ☒ the claims, nos. 5
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	<u>1-4, 6-14</u>	YES
	Claims	<u></u>	NO
Inventive step (IS)	Claims	<u>1-4, 6-14</u>	YES
	Claims	<u></u>	NO
Industrial applicability (IA)	Claims	<u>1-4, 6-14</u>	YES
	Claims	<u></u>	NO
2. Citations and explanations (Rule 70.7)			
<p>The following documents were cited in the international search report:</p> <p>Document 1: JP 2002-44958 A</p> <p>Document 2: JP 6-351258 A</p> <p>Document 3: JP 11-27953 A</p>			
<p>Document 1 sets forth an AC-DC converter, and indicates that regenerated energy generated by the regeneration operation of the motor is returned to the inverter and converter side.</p>			
<p>Documents 2 and 3 set forth DC power supplies for an inverter apparatus, wherein a separate capacitor is connected in parallel to a capacitor via a diode.</p>			
<p>However, documents 1 to 3 neither disclose nor suggest the main feature of the invention set forth in claim 1 of this application, which is an motor drive inverter control apparatus, wherein said apparatus is provided with a first capacitor which is connected in parallel with the output of the rectifier circuit, and a second capacitor which is connected in parallel to the aforementioned first capacitor via a diode; the capacity of the first capacitor is such that the ripple content of</p>			

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the input voltage of the aforementioned inverter circuit is 90% or more in the actual working range when driving the aforementioned motor; and the regenerated energy of the motor is absorbed by the aforementioned first capacitor and the aforementioned second capacitor.

Therefore the invention set forth in claim 1 is novel and involves an inventive step.

In addition, the invention set forth in claims 2 to 4 and 6 to 14 refers back to claim 1, further delimiting said claim, and similarly is novel and involves an inventive step.

The invention set forth in claims 1 to 4 and 6 to 14 is obviously industrially applicable.